

WELDON TIMBER SALE #30-078700
SECTION 28 OF T4N R11E
ROAD PLAN SUMMARY

April 28, 2006
Page 1 of 1

	STA's Pre-haul <u>Maint.</u>	STA's <u>Ditched</u>	STA's <u>Brushing</u>	STA's <u>Outslope</u>	Culvert <u>Cleaning</u>	Roll <u>Dips</u>	STA's Final <u>Maint.</u>
R-8000	49.50	49.50	---	---	3	---	49.50
R-8200	2.75	---	---	2.75	---	---	2.75
R-8210	4.50	---	---	4.50	---	2	4.50
Total:	56.75	49.50	0.00	7.25	3	2	56.75

Road Plan Map

August 10, 2006

Agreement Number #30-078700

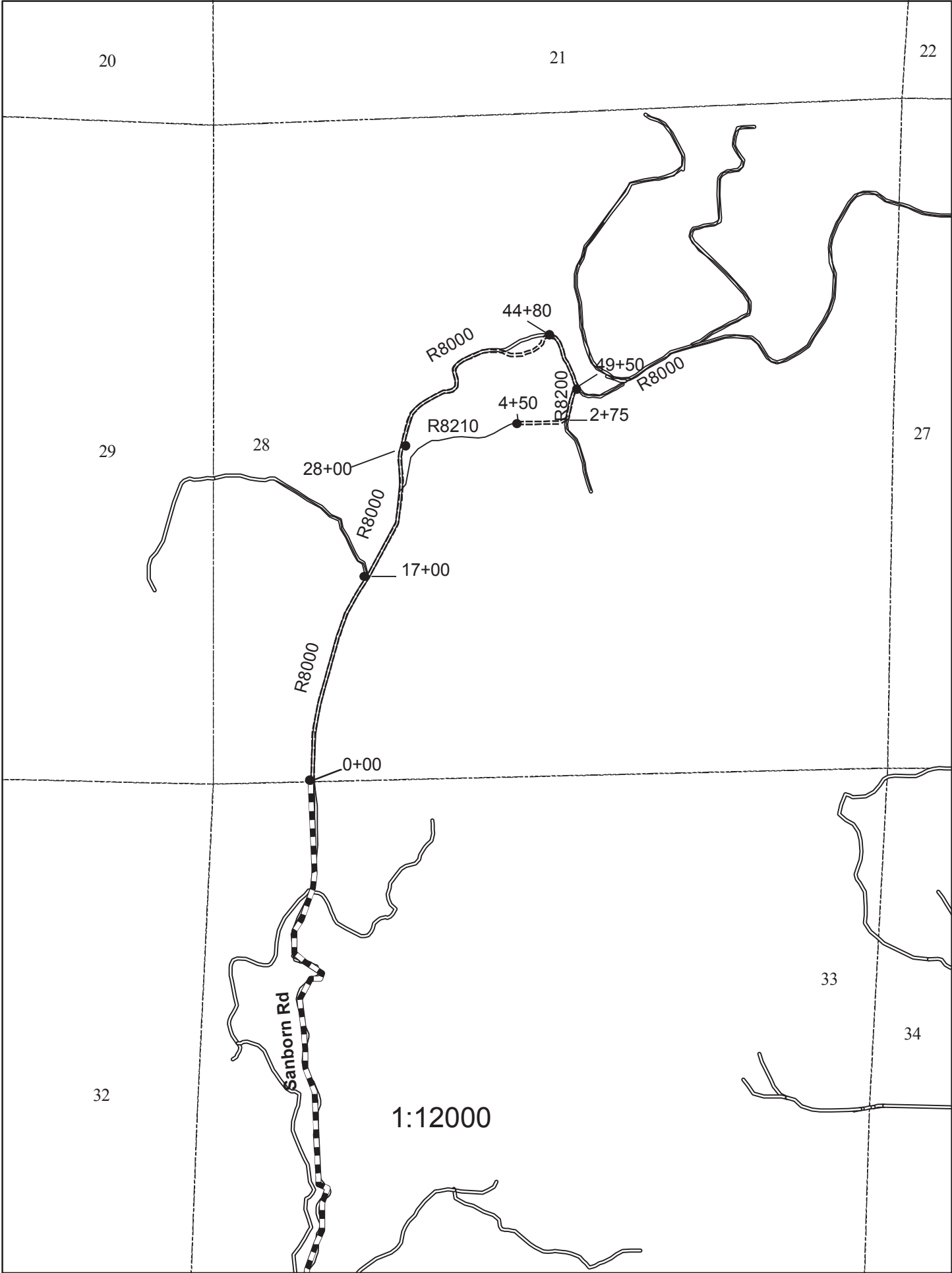
Region: Southeast

Sale Name: Weldon

County: Klickitat

Trust: State Forest Board Transfer (01)

Township 4 North , Range 11 East, W.M.



- Station
- ▬▬▬▬▬▬ County Road
- ===== Pre-Haul Maintenance
- ▬▬▬ Existing Road



STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES
DOUG SUTHERLAND, COMMISSIONER OF PUBLIC LANDS

WELDON TIMBER SALE ROAD PLAN
SECTION 28, TOWNSHIP 4 NORTH, RANGE 11 EAST, W.M.
COUNTY : KLINKITAT

AGREEMENT NO.: 30-078700 DATE: MAY 10, 2006

SECTION 0 - SCOPE OF PROJECT

This project includes, but is not limited to pre-haul maintenance including:
 cleaning ditches;
 cleaning culvert inlets and outlets;
 removing berms from shoulders;
 installation of rolling dips;
 grading and shaping existing road surface and turnouts.

SECTION 1: GENERAL CLAUSES

SECTION 1.1: GENERAL: GENERAL CLAUSES

1.1-1 Clauses in this plan apply to all pre-haul maintenance including landings unless otherwise noted.

1.1-2 Pre-haul maintenance of the following road is required. All roads shall be pre-haul maintained on the State’s location and in accordance with this Road Plan.

<u>Road</u>	<u>Station</u>	<u>Type</u>
R-8000	0+00 to 49+50	Pre Haul Maintenance
R-8200	0+00 to 2+75	Pre Haul Maintenance
R-8210	0+00 to 4+50	Pre Haul Maintenance

1.1-4 If the purchaser desires a road location or design change, a revised road plan shall be submitted to the State for consideration.

SECTION 1.2 - GENERAL: CONSTRUCTION CONSTRAINTS

1.2-1 The pre-haul maintenance of any road specified herein shall not be permitted between October 31 and May 1 unless authority to do so is granted, in writing, by the Contract Administrator.

<u>Road</u>	<u>Station</u>
R-8000	0+00 to 49+50
R-8200	0+00 to 2+75
R-8210	0+00 to 4+50

SECTION 1.2.1 - GENERAL: CONSTRUCTION CONSTRAINTS:

CONSTRUCTION SEQUENCE

- 1.2.1-1
- Grading, ditch cleaning, and rolling dips installation shall be completed prior to haul and are subject to written approval by the Contract Administrator.

SECTION 1.3 - GENERAL: HAULING CONSTRAINTS

- 1.3-2
- On the following roads, timber haul shall not be permitted between the dates listed unless authorized, in writing, by the Contract Administrator.

<u>Road</u>	<u>Closure Period</u>
R-8000	November 1 through April 30
R-8200	November 1 through April 30
R-8210	November 1 through April 30

SECTION 1.5 - GENERAL: ROAD MAINTENANCE

- 1.5-1
- Maintenance on the following roads shall be performed in accordance with Forest Access Road Maintenance Specifications.

<u>Road</u>	<u>Stations</u>
R-8000	0+00 to 49+50
R-8200	0+00 to 2+75
R-8210	0+00 to 4+50

- 1.5-3
- On the following roads, snowplowing shall not be permitted unless authorized, in writing, by the Contract Administrator.

<u>Road</u>	<u>Stations</u>
R-8000	0+00 to 49+50
R-8200	0+00 to 2+75
R-8210	0+00 to 4+50

SECTION 6 - DRAINAGE

SECTION 6.1 - DRAINAGE: SURFACE DRAINAGE

- 6.1-1
- On the following roads, surfaces shall be shaped to augment the escape of surface runoff.

<u>Road</u>	<u>Stations</u>	<u>Shape of Road Surface</u>
R-8000	0+00 to 49+50	Crown 4 inches @ centerline
R-8200	0+00 to 2+75	Outslope 4 inches in 10 feet
R-8210	0+00 to 4+50	Outslope 4 inches in 10 feet

- 6.1-2
- Berms shall be removed from road shoulders to permit escape of runoff.

SECTION 6.3 - DRAINAGE: DITCHES

6.3-5

On the following roads, cleaning ditches, culvert headwalls, catch basins, culvert inlets, and culvert outlets shall be completed prior to timber haul and shall be done in accordance with the Typical Section Sheet and Culvert and Drainage Specification Details.

<u>Road</u>	<u>Stations</u>
R-8000	0+00 to 49+50

SECTION 6.7: DRAINAGE: ROLLING DIPS

6.7-1

On the following roads rolling dips shall be constructed in accordance with the Rolling Dip Detail sheet at locations as specified on the Rolling Dip List. **ROLLING DIPS SHALL BE INSTALLED AT THE TIME OF CONSTRUCTION AND SHALL BE CONTINUOUSLY MAINTAINED IN AN OPERABLE CONDITION.** Rolling dips shall be installed with a crawler tractor. Use of other equipment shall not be permitted without prior written approval of the Contract Administrator.

<u>Road</u>	<u>Stations</u>
R-8210	0+60
R-8210	2+50

SECTION 9 – POST HAUL ROAD WORK

SECTION 9.1 - POST HAUL ROAD WORK:
ROAD AND LANDING FINAL MAINTENANCE

9.1-1

At termination of haul, final maintenance shall be performed on the following roads.

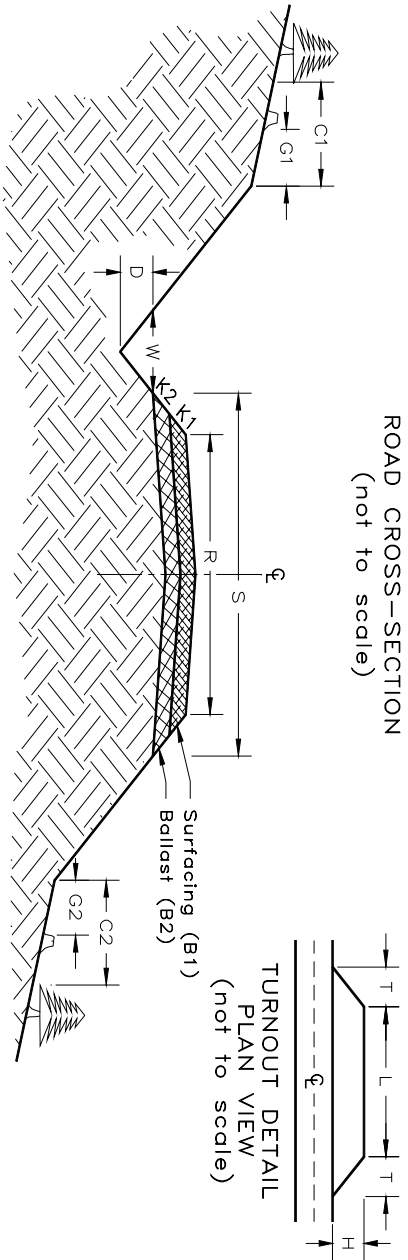
<u>Road</u>	<u>Stations</u>	<u>Type</u>
R-8000	0+00 to 49+50	Light
R-8200	0+00 to 2+75	Light
R-8210	0+00 to 4+50	Light

9.1-1A

- Light final maintenance shall consist of:
- blading the road and landings with a motor grader;
 - removing berms;
 - reshaping rolling dips and/or water bars to specification;
 - pulling ditches and cleaning culvert inlets and outlets.

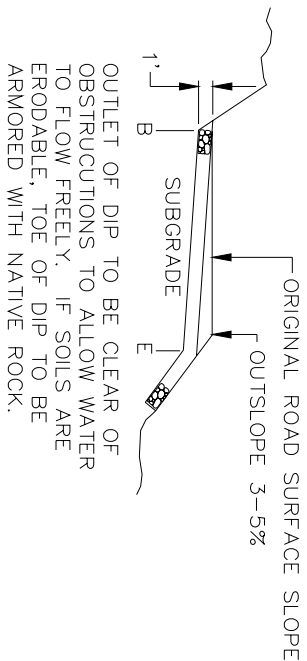
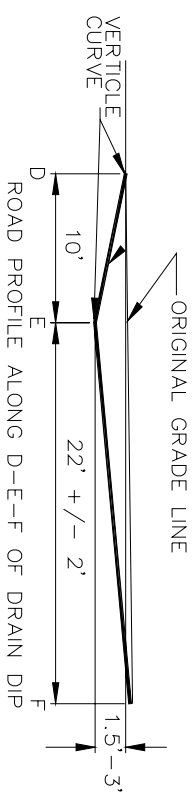
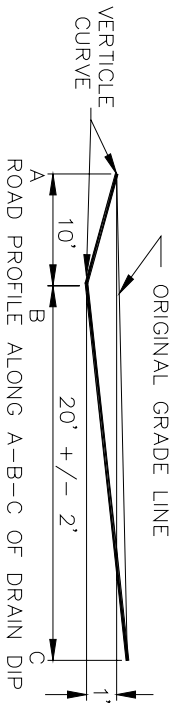
The finished road surfaces shall drain freely and shall be smooth, firm and free of chuckholes.

TYPICAL SECTION SHEET

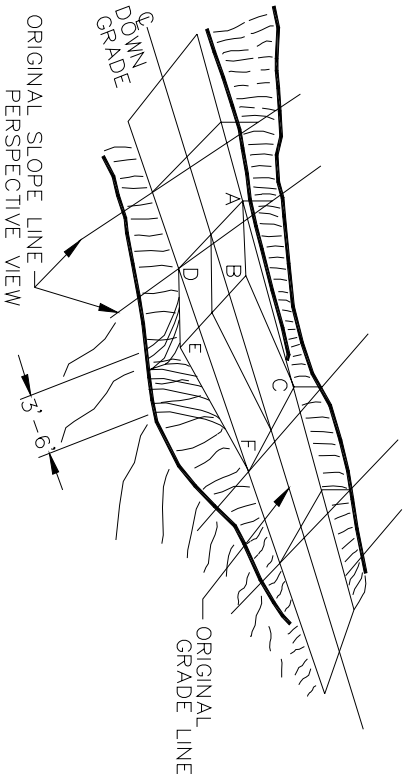


ROAD	CONSTRUCTION/ RECONSTRUCTION/ PRE-HAUL	FROM STATION	TO STATION	TOLERANCE CLASS	SUBGRADE WIDTH S	CROWN INCHES @ CENTERLINE	OUTSLOPE INCHES IN 10 FEET	ROAD WIDTH R	DITCH		GRUBBING LIMITS		CLEARING LIMITS		TURNOUT		COMMENTS
									WIDTH W	DEPTH D	G1	G2	C1	C2	T	L	WIDTH W
R-8000	PRE-HAUL	0+00	49+50	N/A	12'	4	N/A	N/A	2'	1'	N/A		N/A		N/A	N/A	N/A
R-8200	PRE-HAUL	0+00	2+75	N/A	12'	N/A	4	N/A			N/A		N/A		N/A	N/A	N/A
R-8210	PRE-HAUL	0+00	4+50	N/A	12'	N/A	4	N/A			N/A		N/A		N/A	N/A	N/A

ROLLING DIP DETAIL



NOTE: ROLLING DIP, DIPS MAY BE EITHER INSLOPED OR OUTSLOPED. WHEN INSLOPED, DIPS SHALL DRAIN FREELY INTO DITCHES OR CULVERT INLETS. WHEN OUTSLOPED, THEY SHALL DRAIN FREELY ONTO NATURAL GROUND WHERE SOILS ARE ERODABLE, OUTLET SHALL BE ARMORED WITH NATIVE ROCK. THE MINIMUM CROSS GRADE FROM "B" TO "E" IS 4% GREATER THAN THE ROAD SURFACE SLOPE. SKEW LINE B-E TO FIT LOW POINT IN DRAW, IF LOCATED IN NATURAL DRAIN.



FOREST ACCESS ROAD
MAINTENANCE SPECIFICATIONS

A. Cuts and Fills

1. Maintain slope lines as constructed. Remove slides from the ditches and roadway. Replace fills to 1 1/2:1 slopes with selected material or as directed. Remove overhanging material from the cut slopes.
2. Material from slides or other sources requiring removal shall not be deposited in streams or at locations where it will erode into streams or water courses.
3. Undesirable slide materials and debris shall not be mixed into the surface material.

B. Surface

1. Grade and shape the road surface, turnouts, and shoulders to the original crown, inslope or outslope as directed to provide suitable traveled surface and surface water runoff in an even, unconcentrated manner.
2. Blading must not undercut the backslope at the bottom of the ditchline or cut into geotextile fabric on the road.
3. If required in writing by the SE Region Engineer, water shall be applied as necessary to abate dust.
4. Desirable surface material shall not be bladed off the roadway.
5. Replace surface material lost or worn away.
6. Remove berms except as directed by the State.
7. Barrel spread soft spots to prevent degradation of geotextile.

C. Drainage

1. Keep ditches and drainage channels at outlets and inlets of culverts clear of obstructions and functioning as intended.
2. Inspect and clean culverts at least monthly, with additional inspections during storms and periods of high runoff. This must be done even during periods of inactivity.
3. Add stable material at the outlet end of the cross drain culvert as needed to stabilize the soil.
4. Headwalls: maintain to the road shoulder level with material that will resist erosion.
4. Prevent sediment bearing surface runoff from entering live streams.

D. Structures

Repair bridges, culverts, cattle guards, fences, and other road structures to the condition required by the construction specifications.

E. End of Season

Do maintenance work to minimize damage from the elements such as blading to insure correct runoff, ditch, and culvert cleaning and water bars.

F. Debris

Remove fallen timber, limbs, and stumps from the slopes or roadway.